

**City of Chattanooga Requirements for Utilizing Electrical Power
for Carnivals, Circuses, Fairs, Block Parties, Performance Shows
Trades Shows, Concerts, and Similar Events**

Questions have arisen regarding the requirements for electrical wiring and equipment for the above referenced events for outdoors and in other locations. This document will try to address those requirements. Note: The exception below may be applied to requirements at the inspector's discretion.

- 1) Overhead conductors 150 volts or less to ground shall have a clearance of 10' from sidewalks, platforms or projections where they might be reached from, and areas accessible to pedestrians only. 225.18 N.E.C.
- 2) Overhead conductors 300 volts or less to ground shall have a clearance of 12' over areas not listed above and not subject to truck traffic. 225.18 N.E.C.
- 3) Overhead conductors shall have a clearance of 18' over streets, roads, alleys, and other land traversed by vehicles. 225.18 N.E.C.
- 4) Amusement rides and attractions shall maintain not less than 15' clearance to overhead conductors. 525.5(B) N.E.C
- 5) Service equipment shall not be installed in a location that is accessible to unqualified persons unless the equipment is lockable. 525.10(A) N.E.C.
- 6) Service equipment shall be mounted on a solid backing and be weatherproof or protected from the weather. 525.10(B) N.E.C. **Also, all generators must be approved by inspection office prior to use.**
- 7) All equipment and cords shall be in good working condition. 110.3(A) N.E.C.
- 8) Where flexible cords or cables are used they shall be listed for extra hard usage. 525.20(A) N.E.C.
- 9) Where flexible cords or cables are used outdoors they shall be listed for wet locations and shall be sunlight resistant. 525.20(A) N.E.C..
- 10) Single conductor cable shall be permitted in sizes #2 A.W.G. and larger. 525.20(B) N.E.C.
- 11) Flexible cords and cables accessible to the public shall be arranged to minimize the tripping hazard and shall be covered with nonconductive matting. 525.20(G) N.E.C.
- 12) Each ride or concession shall be provided with a fused disconnect switch or circuit breaker located within sight and not less than 6' of the operator's station. The disconnect switch shall be readily accessible to the operator, and where accessible to the public shall be lockable. 525.21(a) N.E.C.
- 13) All 15 and 20 amp 125-volt receptacles shall be G.F.C.I. protected except those used for Egress lighting. 525.23(A) N.E.C. **All cords & cables connections must be protected from moisture.**
- 14) Receptacles supplying cooking or refrigeration equipment that are incompatible with G.F.C.I. devices shall not be required to have G.F.C.I. protection. 525.23(B) N.E.C. (Electrical Inspectors' decision)
- 15) Other receptacles not mentioned above shall have G.F.C.I. protection. 590.6(B) N.E.C.
All cords & cables shall be off the ground unless approved by inspector.
- 16) Vegetation shall NOT be used for support of overhead spans of branch circuits or feeders.

Exception: The CEI or his delegates shall have the authority to allow deviations from the above requirements if warranted. (CEI Chief Electrical Inspector (NEC) National Electrical Code (G.F.C.I) Ground Fault Circuit Interrupter. **Items highlighted in gray are mainly the responsibility of each Vendor or person utilizing power. [Revised July 2007]**